KOREAN PATENT ABSTRACT(KR)

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(54) TITLE OF THE INVENTION

Airbag apparatus for vehicles and method for controlling an operation of the same

<Abstract>

In the present invention, in order to provide an airbag apparatus for vehicles having advantages of preventing unnecessary consumption of an airbag by selectively allowing an airbag to be deployed depending on whether there is a passenger or not, operations of a driver seat airbag 4 and a passenger seat airbag 6 are controlled by an operation control member 2, a driver seat occupation detection sensor 10 and a passenger seat occupation detection sensor 12 for sensing whether a driver seat and a passenger seat has been occupied or not are electrically connected to the operation control member 2, a driver seat belt sensor 20 and a passenger seat belt sensor 22 for sensing whether a driver seat belt and a passenger seat belt have been fastened or not are electrically connected to the operation control member 2, and an alarming device 26 for generating an alarm sound is electrically connected to the operation control member 2.

<Claims>

1. An airbag apparatus for a vehicle, wherein a driver seat airbag 4 and a passenger seat airbag 6 are controlled by an operation control member 2, a driver seat occupation detection sensor 10 and a passenger seat occupation detection sensor 12 for sensing whether a driver seat and a passenger seat has been occupied or not are electrically connected to the operation control member 2, a driver seat belt sensor 20 and a passenger seat belt sensor 22 for sensing whether a driver seat belt and a passenger seat belt have been fastened or not are electrically connected to the operation control member 2, and an alarming device 26 for generating an alarm sound is electrically connected to the operation control member 2.

2. A method for controlling an operation of an airbag apparatus for a vehicle, comprising:

a first step of determining whether a driver seat occupation detection sensor 10 and a passenger seat occupation detection sensor 12 have been turned on;

a second step of determining, if the whether driver seat occupation detection sensor 10 and the passenger seat occupation detection sensor 12 have been turned on, whether the driver seat belt sensor 20 and the passenger seat belt sensor 22 have been turned on;

a third step of standing by airbags 4 and 6 for an operation, if the driver seat belt sensor 20 and the passenger seat belt sensor 22 have been turned on;

a fourth step of generating an alarm sound using an alarming device, if it is determined that the driver seat belt sensor 20 and the passenger seat belt sensor 22 have not been turned on in the second step; and

a fifth step of performing an operation to deploy the airbag, if an impact force acts, after the third step has been performed.

a first step of determining whether a driver seat occupation detection sensor 10 and a passenger seat occupation detection sensor 12 have been turned on;

a second step of determining, if the whether driver seat occupation detection sensor 10 and the passenger seat occupation detection sensor 12 have been turned on, whether the driver seat belt sensor 20 and the passenger seat belt sensor 22 have been turned on;

a third step of standing by airbags 4 and 6 for an operation, if the driver seat belt sensor 20 and the passenger seat belt sensor 22 have been turned on;

a fourth step of generating an alarm sound using an alarming device, if it is determined that the driver seat belt sensor 20 and the passenger seat belt sensor 22 have not been turned on in the second step; and

a fifth step of performing an operation to deploy the airbag, if an impact force acts, after the third step has been performed.